IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

In re the Application of: Masaharu YAMAMOTO et al.

Art Unit: 2818

Application Number: 10/568,075 Examiner: Jonathan Han

Filed: February 13, 2006 Confirmation Number: 7448

For: HERMETIC SEALING CAP, METHOD OF MANUFACTURING

HERMETIC SEALING CAP AND ELECTRONIC COMPONENT

STORAGE PACKAGE

Attorney Docket Number: 062092

Customer Number: 38834

REPLY BRIEF

Mail Stop: Appeal Brief-Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

February 8, 2011

In response to the Examiner's Answer mailed January 6, 2011, the following is the Appellants' Reply Brief.

REMARKS

I. ARGUMENT

Responding to Appellants' argument in the Appeal Brief, the Examiner alleged as follows:

By utilizing the Ni-Co layer of Suzuki in layer 1 [14] of Levine as disclosed in the previous rejection in claim 1, the layer orientation is Ni-Co (layer [14] of Levine Figure 2), Ni [18], and Au [20]. This follows the orientation of the layer structure of claim 1. Furthermore, Suzuki supports this orientation by identifying the same issue of oxidizing corrosion. By implementing this Ni-Co layer in the first layer, this controls diffusion of nickel components within the layer of gold between the first and second layer which would cause a lower deterioration of the interior layers and preventing the body from becoming positively charged (see Suzuki, ¶[0033-0034] and Levine, Column 4, lines 41-64). This creates the hermetic sealing cap structure of claim 1. Furthermore, as stated in Levine, the multi-layered structure protects the inner layers from further deterioration and reduces EMF difference that causes diffusion of the inner layers therefore the second layer of Ni inherently inhibits the first layers from diffusing out into the solder layers (see Levine, Column 4, line 65- Column 5, line 8) as the same materials (Ni-Co and Co) are used as well as the same orientation of layers are implemented between the prior art and the instant case.

However, there is no reason for a person of ordinary skill in the art to apply the Ni-Co layer of Suzuki in layer 14 of Levine. The layer structure of Suzuki is completely different from that of Levine, and it is not clear why a person of ordinary skill in the art would utilize the Ni-Co layer of Suzuki in layer 14 of Levine.

Suzuki describes as follows:

[0033]

In this case, if the gold layer 11 is less than 0.1 µm, it tends to become difficult to effectively prevent the oxidation corrosion of the nickel layer 9

or the nickel cobalt layer 10. If the thickness exceeds 3 μ m, when the metal lid body 2 is joined to the metallized layer 6 for closure by seam welding, the current which flows into the thick gold layer 11 increases while the current which flows into the metal lid body 2 decreases, and there is a possibility that melting of the solder material 8 may be barred and the intensity of junction may deteriorate. Therefore, it is preferred to make the thickness of said gold layer 11 in the range of 0.1 μ m - 3 μ m, and the range 0.1 μ m - 2 μ m is further preferred.

According to the wiring board of this invention, because the nickel cobalt layer 10 is formed directly under the gold layer 11, a cobalt component inhibits diffusion of nickel components, it rarely happens that some nickel of the nickel layer 9 or the nickel cobalt layer 10 diffuses through the gold layer 11, being exposed on the surface of the gold layer 11 and oxidized to generates a nickel oxide and nickel hydroxide with poor wettability to the solder material 8; thus firm junction to the metallized layer 6 and the solder material 8 is constantly obtained.

(Suzuki, paragraph [0033]-[0034], revised from machine translated version). Thus, according to Suzuki, the Ni-Co layer 10 is formed directly under the Au layer 11 because a Co inhibits diffusion of Ni. In order to prevent diffusion of nickel into gold layer, Ni-Co layer has to come between the nickel layer and gold layer, making the order of the layers Ni/ Ni-Co/Au.

In contrast, according to claim 1, when the diffusion accelerator is Co, the order of the layers is **substrate/Ni-Co/Ni/Sn solder layer**. Thus, the order of the layers is different between Suzuki and the present invention. Moreover, the solder layer of Suzuki is not "mainly composed of Sn."

Another reference, Levine describes at the portion cited above as follows:

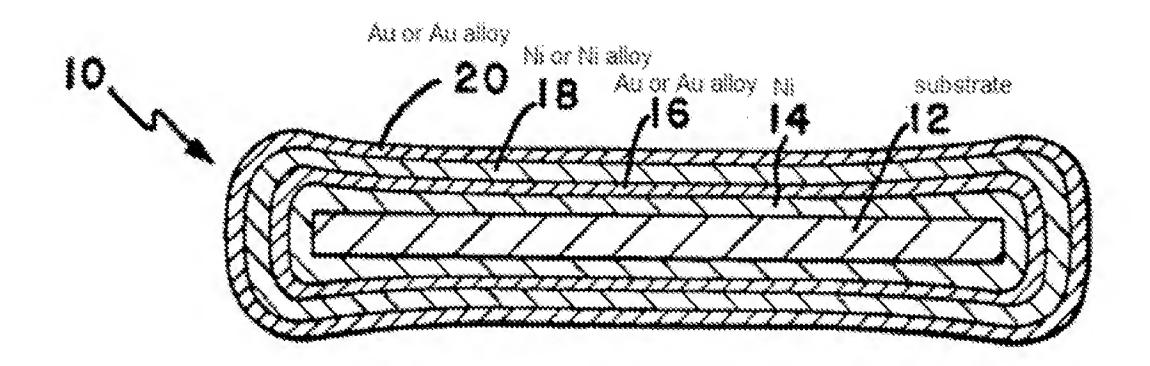
In contrast in the present invention, with the second nickel layer 18 and the second gold layer 20, there is no EMF difference between the two gold layers and there is no transport of iron ions, for example, to the surface of the second gold layer. This is because the nickel metal has a lower electromotive force than the gold. As soon as the channel is filled with metal oxides up to gold layer 16, the electrolyte becomes depleted and no

further corrosion action takes place. The channels are so small in diameter that with the stopping-off of galvanic action at gold layer 16, no observable corrosion is observed.

(Levine, Column 4, line 65- Column 5, line 8). Here, Levine discusses the stopping-off of galvanic action at gold layer 16. Levine also describes as follows:

A first layer 14 of nickel or a nickel based alloy is plated on the base material 12 by any conventional electroplating process, including barrel plating, strip plating, rack plating or a combination of such techniques. The so-called "dog-bone" thickness profile of barrel plating of nickel layer 14 is shown in FIG. 1. The thickness of the nickel layer, measured at the center of layer 14, is preferably in the range of about 10 to 300 microinches, more preferably in the range of about 50 to 200 microinches. All references to the thickness of layers herein refer to the thickness at the center of the layer. Most preferably, the thickness of nickel of layer 14 is about 100 microinches. A first layer 16 of gold or a gold based alloy is plated on nickel layer 14 also by any conventional plating technique, although the pro file of barrel plated part is shown in the drawing. The thickness of gold layer 16, is preferably in the range of about S to 150 microinches, more preferably about 10 to 75 microinches. Most preferably, the thickness of gold at the center of layer 16 is about 25 microinches. A second layer 18 of nickel or a nickel based alloy is plated onto gold layer 16 by an electroplating process, and preferably has a thickness in the ranges indicated for layer 14. Preferably, nickel layer 18 has approximately the same thickness as first nickel layer 14. A second layer 20 of gold or a gold based alloy is plated onto nickel layer 18 by an electroplating process, and preferably has a thickness in the range indicated for layer 16. Preferably, gold layer 20 has approximately the same thickness as first gold layer 16. The resulting product greatly minimizes corrosion when the part is subjected to a salt spray atmosphere.

(Levine column 4, lines 9-40).



Thus, Levine discusses Ni/Au/Ni/Au structure. Levine also describes as follows:

It has been surprisingly discovered that when a **second set of nickel and gold layers** is plated onto a base metal, with the total gold thickness being approximately the same as with a conventional nickel-gold plated part, the **corrosion resistance of the part is greatly improved**.

(Levine column 3, lines 27-31). Thus, according to this explanation Levine, there are at least two sets of nickel and gold layers. Such a layer structure is irrelevant to the layer structures of Suzuki and the present invention. Levine further describes as follows:

Also, the tendency for oxidation and corrosion to occur is more pronounced in plated layers which are relatively thin, and hence may be porous. In general, corrosion may occur with plated layers in which the plating thickness is less than about 500 microinches.

Preferably, the metals of the first and third layers are selected from the group of nickel, titanium, chromium, tin and their alloys. Most preferably, the metal of the first and third layers, which act as diffusion barriers, is nickel.

Also preferably, the metals of the second and fourth layers are selected from the group of gold, copper, silver, palladium, platinum or their alloys. Most preferably, the metal of the second and fourth layers, which act as corrosion resistant layers, is gold.

Preferably, the metals of the first and third layers are the same, and are plated to approximately the same thickness, and the metals of the second and fourth layers are the same, and are plated to approximately the same thickness.

(Levine column 6, lines 41-60). According to Levine, nickel layers are the barrier layers, and nothing indicates need of additional layer or Ni-Co layer between the nickel layer and the gold layer. Moreover, like Suzuki, Levine fails to layer structure which includes "a solder layer mainly composed of Sn."

The Examiner alleged that "Kim discloses a solder layer mainly composed of Sn formed on a region of the surface of said second layer to which said electronic component storing member is bonded" referring to paragraph [0031]-[0032]. Kim et al. describes, at the cited portion, as follows:

[0031] The lid frame 2 may be formed of a transparent material, such as glass, quartz, or a material, such as Si, ceramic, and Kovar, and the junction layer 5 may be formed of Cr or Ti. Preferably, the wetting layer 6 is formed of Ni and Cu, and the solder layer 7 is formed of at least one selected from In, Sn, Bi, Ag, and Zn, and the first protection layer 8 is formed of Au. Also, the thickness of the first protection layer 8 is, preferably, but not necessarily, less than 1000Å.
[0032] The junction layer 5, the wetting layer 6, and the solder layer 7 are laminated through heat or e-beam evaporation, sputtering, electroplating, non-electrolysis deposition, and screen printing and are manufactured in a high vacuum apparatus so as to prevent the oxidation of each layer.

(Kim et al., paragraph [0031]-[0032]). Thus, Kim et al. simply describes Sn as an example of the materials to form a solder layer of a particular lid frame. As explained above, Suzuki addresses a particular metalized layer of Ni/Ni-Co/Au. Also, Levine discusses the particular layer structure Ni/Au/Ni/Au, or Ni/(Cu, Ag, Pd, Pt)/Ni/Au. Even a solder layer formed of Sn was known, it has nothing to do with the layer structures of Suzuki and Levine.

Therefore, even if Levine is combined with Suzuki and Kim et al., there is no reason for a

person of ordinary skill in the art to make a sealing cap comprising "a substrate; a first layer, formed on the surface of said substrate, mainly composed of Ni containing a diffusion accelerator; a second layer formed to be in contact with the surface of said first layer; and a solder layer mainly composed of Sn formed on a region of the surface of said second layer to which said electronic component storing member is bonded, wherein said second layer is formed so as to inhibit said first layer from diffusing into said solder layer at a first temperature and diffuse said first layer into said solder layer through said second layer when said solder layer bonds to said electronic component storing member at a second temperature higher than said first temperature," as recited in claim 1.

Further responding to Appellants' argument in the Appeal Brief, the Examiner alleged as follows:

Appellant also argues that Examiner's allegations of the term "accelerator" ignores ordinary meaning and consistent use of the word. However, based on the definition of acceleration in physics and statistical mechanics, acceleration is the rate of change of velocity over time and does not necessitate the need for the system to increase in velocity as argued by the Appellant. Furthermore, Appellant's disclosure also keeps the acceleration of the system vague as to whether it is an increase or decrease in speed, but merely notes whether diffusion occurred or not. With no indication of increase in speed by the appellant in the disclosure (no rates or changes are provided), Examiner provided the same material utilized by the appellant for a diffusion accelerator (Cobalt; see rejection above, claim 1 and page 28 Paragraph 3 of the Appellant's specification). Therefore, it would be expected that based on the disclosure of the Appellant as well as the prior art of the record that Cobalt (Co) would function identically in both the combination of Levine, Suzuki, and Kim as the instant application.

However, the present invention would be related to chemical or material engineering rather than physics and statistical mechanics. Webster's Encyclopedic Unabridged Dictionary defines the term "accelerator" and the term "accelerate" as follows:

ac·cel·er·a·tor n. 1. a person or thing that accelerates, 2. Auto. a device, usually operated by the foot, for controlling the speed of en engine. 3. Brit. any two- or three-wheeled motor vehicle, as a motorcycle or motor scooter. 4. Photog. a chemical, usually an alkali, added to e developer to increase the rate of development. 5. Also called accelerant. Chem. any substance that increases the speed of a chemical change, as one that increases the rate of vulcanization of rubber or that hastens the of concrete, mortar, plaster, or the like. 6 Anat., Physiol. any muscle, nerve, or activating substance that quickens a movement. 7. Also called atom smasher, particle accelerator. Physics. an electrostatic or electromagnetic device, as a cyclotron, that produces high-energy particles and focuses them on a target. 8. Econ. See acceleration coefficient.

ac·cel·er·ate *v.t.* 1. to cause faster or greater activity, development, progress advancement, etc., in: to accelerate economic growth. 2. to hasten the occurrence of: to accelerate the fall of a government. 3. Mech. to change the velocity of (a body) or the rate of (motion); cause to undergo acceleration. 4. to reduce the time required for (a course of study) by intensifying the work, eliminating detail, etc. -*v.i.* 5. to move or go faster, increase in speed. 6. to progress or develop faster.

As seen in these definitions, the definition alleged by the Examiner appears to be limited to the fields of mechanics or dynamics. In the ordinary meaning, "decelerate" is used when the speed decreases. Webster's Encyclopedic Unabridged Dictionary defines the term "decelerate" as follows:

de·cel·er·ate --v.t. 1. decrease the velocity of: He decelerates the bobsled when he nears a curb. 2. to slow the rate of increase of: efforts to decelerate inflation. -v.i. 3. to slow down: The plane decelerated just before landing.

Art Unit: 2818 Attorney Docket No.: 062092

Thus, the Examiner's allegations on the term "accelerator" ignore the ordinary meaning of the term in the relevant field and the consistent use of the word in the present specification.

The Examiner also alleged as follows:

Furthermore, based on the translation used by the Examiner (attached for convenience), states:

[0034] According to the wiring board of this invention, the nickel cobalt layer 10 is formed directly under the gold layer 11. Since a cobalt component controls diffusion of nickel components, some nickel of the nickel layer 9 or the nickel cobalt layer 10 diffuses the inside of the gold layer 11, and it exposes to the surface of the gold layer 11 . . . " (emphasis added).

By this translation, the cobalt component controls diffusion and does not inhibit or slow down the diffusion, thereby controls the rate of diffusion (i.e., an accelerator) and allows for nickel to diffuse into the outer gold layer. Therefore, since materially and functionally, the diffusion accelerators are identical in both the instant application as well as the prior art, Examiner's cobalt in the nickel-cobalt layer is considered an accelerator" by definition.

The translation apparently is a machine translation on which, the Japanese Patent Office specifically notes, that "the translation may not reflect the original precisely." The attorney for the appellant is proficient both in English and Japanese and the translation cited by the Appellant is his corrected version of the machine-translation version. The original text is complex and difficult for a computer to correctly translate.

As to the word "control" translates the Japanese word "抑制する(yokusei-suru)", the Progressive Japanese-English Dictionary, published by Shogakukan, give translations of "restrain; control; check, repress" and give the examples of "control [check] inflation," "control [restrain] one's passions," "in order to control the movements of terrorists," and "I cannot hold back [repress] my discontent any longer." Although Japanese-English Dictionary gives the

Application No.: 10/568,075

Reply Brief

Art Unit: 2818 Attorney Docket No.: 062092

translation "control," the uses of "control" translating "抑制する(yokusei-suru)" is limited to the meaning of restrain, check, or repress. Therefore, the word "control" should have been more accurately translated as "inhibit" "restrain" or "repress." In the machine translation, the clause "Since a cobalt component **controls (inhibits)** diffusion of nickel components" contradicts its following clause "some nickel of the nickel layer 9 or the nickel cobalt layer 10 diffuses the inside of the gold layer 11, and it exposes to the surface of the gold layer 11." Thus, the latter clause is clearly erroneous. The Appellants' attorney's version, repeated below, is more accurate than the machine translation.

[0034]

According to the wiring board of this invention, because the nickel cobalt layer 10 is formed directly under the gold layer 11, a cobalt component inhibits diffusion of nickel components, it rarely happens that some nickel of the nickel layer 9 or the nickel cobalt layer 10 diffuses through the gold layer 11, being exposed on the surface of the gold layer 11 and oxidized to generates a nickel oxide and nickel hydroxide with poor wettability to the solder material 8; thus firm junction to the metallized layer 6 and the solder material 8 is constantly obtained.

Thus, none of the Examiner's responses to Appellants' arguments justify the Examiner's rejection of the claims of the present application.

Therefore, claims 1-20 patentably distinguish over the combination of Levine, Suzuki, Kim et al., Woolhouse et al. and Shiomi et al. as discussed in the appeal brief.

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II. CONCLUSION

As discussed in the appeal brief and this reply brief, the present invention as recited in

claims 1-20 patentably distinguish over the combination of Levine, Suzuki, Kim et al.,

Woolhouse et al. and Shiomi et al.

For the foregoing reasons, the Examiner has failed to establish a prima facie case of

obviousness in the rejection of the present claims. The Honorable Board is respectfully

requested to reverse the rejection of the Examiner.

If this paper is not timely filed, appellants hereby petition for an appropriate extension of

time. The fee for any such extension may be charged to Deposit Account No. 50-2866, along

with any other additional fees that may be required with respect to this paper.

Respectfully submitted,

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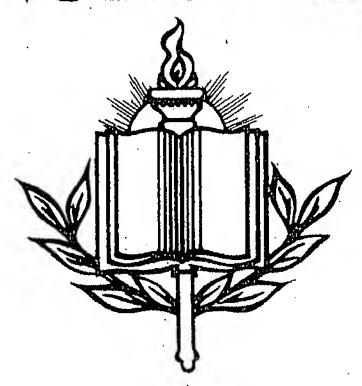
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Attachments: Webster's Encyclopedic Unabridged Dictionary

Progressive Japanese-English Dictionary

- 11 -

WEBSTER'S ENCYCLOPEDIC UNABRIDGED DICTIONARY OF THE ENGLISH LANGUAGE



The dictionary entries are based on the Second Edition of The Random House Dictionary of the English Language

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phal(a); neut. pl. of acan--

p. sīt/), n. Pathol. an abnoring projections, found in the lipoproteinemia and certain 180-85; ACANTHO- + -CYTE] n'thō sī tō/sis), n. a condinumbers of acanthocytes in

holde en), n any small, of the extinct order Acanra. [1850-55; < NL Acan-(equiv. to Acanthod(es) a rickly, spiny; see ACANTH-,

d), adj. spiny; spinous.

ol'e jë), n. Biol. the study s or certain spiny-headed relate to taxonomic classifi-a-can-tho-log-l-cal-can-thologist, n.

k/en thop/te rij/e en), adj. the Acanthopterygii (Acanfinned fishes, including the an acanthopterygian fish. ygi(i) (acantho-ACANTHOfin + L-I masc. pl. ending)

adj. spinous [ACANTH- +



pl. thus es, thi (thi). 1. mus Acanthus, of the Mediny or toothed leaves and vers. Cf. acanthus family. as in the Corinthian capihis plant. [1610-20; < NL, t] acanthine (a kan-

plant family Acanthaceae, s plants and shrubs having sters of tubular bracted is dispersed by exploding s, caricature, and shrimp

p/-); n. Med. a deficiency od and tissues. [1905–10; keless (a- A-0 + kapnós from the fact that smoke cap/nl·al, adj.

in käp pel/lä), Music. 1. in the style of 180; < It: in the manner of

hē ō/; It. ä/ kä prēt/chô), with whatever expression according to caprice]

Sp. ä/kä pool/kô), n. a ico, on the Pacific 456,700. a strong and highly prized 1 Mexico. [1965–70]

'athol: congenital absence -a-car-di-ac (ā kār'dē-

carus.

n., pl. -ses (-sēz'). Pathol. p. mites. 2. a skin disease scabies. [1820–30; < NL;

(/er e-), n. a substance or ...[1875-80; ACAR(US) + -I-

acarine, esp. a mite of the or pertaining to an acarid.

rin), n. 1. any of numerurina, comprising the mites or pertaining to the order år/ē ən). [1820-30; < NL quiv. to Acar(us) name of a, neut. pl. of -inus -INE¹] ə, -nān/yə), n. a coastal f ancient Greece: now part and Acarnania in modern nania. —Ac/ar-na/ni-an,

resembling a mite or tick.

ellow resin obtained from es, esp. Xanthorrhoea hases and lacquers and as a d'accroides gum.

n the branch of zoology [ACAR(US) + -O- + -LOGY]

(o'be e), n. Psychiatry. a n is infested with mites or utilation in order to elimisee ACARUS, -O-, -PHOBIA]

a·car·pel·ous (ā kār/pe les), adj. Bot. having no carpels Also, a·car/pel·lous. [1875-80; A-* + CARPEL + ous]

a.car.pous (ā kar/pəs), adj. Bot. not producing fruit; sterile; barren. [< Gk ákarpos. See A-6, -carpous]

ac•a•rus (ak/er es), n., pl. -a•ri (-e ri/). a mite, esp. of the genus Acarus. [1650-60; < NL < Gk ákari mite]
a•cat•a•lec•tic (ā kat/l ek/tik). Pros. —adi. 1. not

a-cat-a-lec-tic (ā kat/l ek/tik), *Pros.* —adj. 1. not catalectic; complete. —n. 2. a verse having the complete number of syllables in the last foot. Cf. catalectic, hypercatalectic. [1580-90; < LL acatalecticus. See A-6, CATALECTIC]

a·cat·a·lep·sy (ā kat/l ep/sē), n. Philos. an ancient Skeptical view that no more than probable knowledge is available to human beings. [1595-1605; (< ML acata-lēpsia) < Gk akatalēpsia, equiv. to akatalēpt(eîn) to not comprehend (v. deriv. of akatálēptos incomprehensible, ungraspable; see A-6, CATALEPSY) + -ia -IA] —a·cat·a·lep·tlc (ā kat/l ep/tik), n., adj.

a·cau·dal (ā kôd/l), adj. Zool. tailless. Also, a·cau·date (ā kô/dāt). [1855-60; A-6 + CAUDAL]

ac-au-les-cent (ak/ô les/ent, ā/kô-), adj. Bot. not caulescent; stemless; without visible stem. Also, a-cau-line (ā kô/lin, -līn), a-cau-lose (ā kô/lōs), a-cau-lose (ā kô/ləs). [1850-55; A-6 + CAULESCENT] —ac/au-les/ecence, n.

a·caus·ai (ā kô/zəl), adj. having no cause. [A-6 + CAUSAL] —a/cau·sai/i·ty. n.

acc., 1. accelerate 2. acceleration. 3. accept. 4. acceptance. 5. accompanied. 6. accompaniment. 7. accordant. 8. according. 9. account. 10. accountant. 11. accusative.

Ac·cad (ak/ad, a/kad), n. Akkad.

Ac•ca•di•an (ə kā/dē ən, ə kä/-), n., adj. Akkadian.

ac-cede (ak sed!), v.i., -ced-ed, -ced-ing. 1. to give consent, approval, or adherence; agree; assent; to accede to a request; to accede to the terms of a contract. 2. to attain or assume an office, title, or dignity; succeed (usually follow to): to accede to the throng 3. Internat Law

ally fol. by to): to accede to the throne. 3. Internat. Law. to become a party to an agreement, treaty, or the like, by way of accession. [1400-50; late ME: to approach, adapt to < L accedere to approach, assent, equiv. to acacedere to go; see CEDE] —ac·ced/ence, n. —ac·ced/er, n.

-Syn. 1. See agree.

accelerando.

ac·Cel·er·an·do (ak sel/ə ran/dō, -ran/-; It. at che/le-Ran/dô), adv., adj. Music. gradually increasing in speed. [1835–45; < It < L accelerandus, gerundive of accelerare to speed up. See ACCELERATE]

ac-cel-er-ant (ak sel/er ent); n. 1. something that speeds up a process 2. Chem: accelerator (def. 5). 3. a substance that accelerates the spread of fire or makes a fire more intense: Arson was suspected when police found accelerants at the scene of the fire. [1915-20; < L accelerant- (s. of accelerans) hastening (prp. of accelerare). See ACCELERATE]

ac·cel·er·ate (ak sel/e rāt/), v., -at·ed, -at·ing. —v.t.

1. to cause faster or greater activity, development, progress, advancement, etc., in: to accelerate economic growth.

2. to hasten the occurrence of to accelerate the fall of a government:

3. Mech. to change the velocity of (a body) or the rate of (motion); cause to undergo acceleration.

4. to reduce the time required for (a course of study) by intensifying the work, eliminating detail, etc.—v.i.

5. to move or go faster; increase in speed.

6. to progress or develop faster. [1515-25; < L accelerātus speeded up (ptp. of accelerāre), equiv. to ac-Ac-+ celer swift + -ātus -ATE¹] —ac·cel/er·a·ble, adj. —ac·cel/er·at/ed·ly, adv.

accelerated reader, Educ. a teaching device into which a page of reading material is inserted and advanced one line at a time, gradually increasing the speed to accelerate and improve one's rate of reading comprehension.

ac·cel·er-a·tion (ak sel/ə rā/shən), n. 1. the act of accelerating; increase of speed or velocity. 2. a change in velocity. 3. Mech. the time rate of change of velocity with respect to magnitude or direction; the derivative of velocity with respect to time. $[1525-35; < L \ acceleration$ - (s. of acceleratio). See ACCELERATE, -ION]

accelera/tion clause/, a provision of a mortgage, loan, or the like that advances the date of payment under certain circumstances. [1930-35]

accelera/tion coeffi/clent, Econ. the ratio of change in capital investment to the change in consumer spending. Also called accelerator, coefficient of acceleration. Cf. acceleration principle.

ac-cel-er-a-tion-ist (ak sel/e ra/she nist), n. Econ. a person, esp. an economist, who advocates or promotes the acceleration principle. [ACCELERATION: + -IST]

accelera/tion of grav/ity, Physics. the acceleration of a falling body in the earth's gravitational field, inversely proportional to the square of the distance from the body to the center of the earth, and varying somewhat with latitude: approximately 32 ft. (9.8 m) per second per second. Symbol: g Also called gravity. [1885–90]

accelera/tion prin/ciple, Econ. the principle that an increase in the demand for a finished product will create a greater demand for capital goods. Also called accelerator prin/ciple. [1940-45]

ac·cel·er·a·tive (ak sel/e rā/tiv, -er e tiv), adj. tending to accelerate; increasing the velocity of Also, ac·cel·er·a·to·ry (ak sel/er e tôr/e, -tōr/ē). [1745-55; ACCELERATE + -ive]

ac:cel:er-a-tor (ak sel/a rā/tər), n. 1. a person or thing that accelerates. 2. Auto. a device, usually operated by the foot, for controlling the speed of an engine.

3. Brit. any two-or three-wheeled motor vehicle, as a motorcycle or motor scooter. 4. Photog. a chemical,

usually an alkali, added to a developer to increase the rate of development. 5. Also called accelerant. Chem. any substance that increases the speed of a chemical change, as one that increases the rate of vulcanization of rubber or that hastens the setting of concrete, mortar, plaster, or the like. 6. Anat., Physiol. any muscle, nerve, or activating substance that quickens a movement. 7. Also called atom smasher, particle accelerator. Physics an electrostatic or electromagnetic device, as a cyclotron, that produces high-energy particles and focuses them on a target. 8. Econ. See acceleration coefficient. [1605-15; 1930-35 for def. 7; ACCELERATE + -OR.]

ac-cel-er-o-gram (ak sel/er e gram), n. a graphic record in chart form, produced by an accelerograph in response to seismic ground motions. [1970–75; ACCELER-(ATION) + -0- + -GRAM¹]

ac-cel-er-o-graph (ak sel/er e graf/, -graf/), n. an accelerometer containing a pendulum device for measuring and recording ground motions produced by earth-quakes. [1905–10; ACCELER(ATION) + -O- + -GRAPH]

ac·cel·er·om·e·ter (ak sel/e rom/i ter), n. an instrument for measuring acceleration, as of aircraft or guided missiles [1900-05; ACCELER(ATION) + -O- + -METER]

ac.cent (n. ak/sent; v. ak/sent, ak sent/), n. 1. prominence of a syllable in terms of differential loudness, or of pitch, or length, or of a combination of these. 2. degree of prominence of a syllable within a word and sometimes of a word within a phrase: primary accent; secondary accent. 3. a mark indicating stress (as (', '), or (', 1), or (',''), vowel quality (as French grave ', acute ', circum-flex '), form (as French la "the" versus là "there"), or pitch 4. any similar mark. 5. Pros. a. regularly recurring stress. b. a mark indicating stress or some other distinction in pronunciation or value. 6. a musical tone or pattern of pitch inherent in a particular language either as a feature essential to the identification of a vowel or a syllable or to the general acoustic character of the language. Cf. tone (def. 7). 7. Often, accents. a. the unique speech patterns, inflections, choice of words, etc., that identify a particular individual: We recognized his accents immediately. She corrected me in her usual mild accents. b. the distinctive style or tone characteristic of an author, composer, etc.: the unmistakably Brahmsian accents of the sonata; She recognized the familiar accents of Robert Frost in the poem. 8. a mode of pronunciation, as pitch or tone, emphasis pattern, or intonation, characteristic of or peculiar to the speech of a particular person, group, or locality: French accent; Southern accent. Cf. tone (def. 5). 9. such a mode of pronunciation recognized as being of foreign origin: He still speaks with an accent. 10. Music. a. a stress or emphasis given to certain notes. b. a mark noting this. c. stress or emphasis regularly recurring as a feature of rhythm. 11. Math. a. a symbol used to distinguish similar quantities that differ in value, as in b', b", b" (called b prime, b second or b double prime, b third or b triple prime, respectively) b. a symbol used to indicate a particular unit of measure, as feet (') or inches ("), minutes (') or seconds ("). c. a symbol used to indicate the order of a derivative of a function in calculus, as f' (called f prime) is the first derivative of a function f. 12. words or tones expressive of some emotion. 13. accents, words; language; speech: He spoke in accents bold. 14. distinctive character or tone: an accent of whining complaint. 15. special attention, stress, or emphasis: an accent on accuracy. 16. a detail that is emphasized by contrasting with its surroundings: a room decorated in navy blue with two red vases as accents. 17. a distinctive but subordinate pattern, motif, color, flavor, or the like: The salad dressing had an accent of garlic. -v.t. 18. to pronounce with prominence (a syllable within a word or a word within a phrase): to accent the first syllable of "into"; to accent the first word of "White House." 19. to mark with a written accent or accents. 20. to give emphasis or prominence to; accentuate. [1520-30; < L accentus speaking tone, equiv. to ac- AC- + -centus, comb. form of cantus song (see CANTO); trans. of Gk prosoidia PROSODY] -ac/cent·less, adj. -ac·cen·tu·a·ble (ak sen/chōōˈəbəl), adj.

ac/cent mark/, a mark used to indicate an accent, stress, etc., as for pronunciation or in musical notation. Cf. diacritic (def. 1). [1885–90]

ac-cen-tor (ak sen-tor, ak-sen-), n. any oscine bird of the family Prunellidae, of Europe and Asia, resembling sparrows but having more finely pointed bills, as the hedge sparrow. [1815-25; < NL: a genus of such birds, LL: one who sings with another, equiv. to L ac- AC- +-centor, comb. form of cantor singer; see CANTOR]

ac·cen·tu·al (ak sen/choo el), adj. 1. of or pertaining to accent or stress. 2. Pros. of or pertaining to poetry based on the number of stresses, as distinguished from poetry depending on the number of syllables or quantities. [1600-10; < L accentu(s) (see ACCENT) + -AL¹]—ac·cen/tu·al/l·ty, n.—ac·cen/tu·al·ly, adv.

ac-cen-tu-ate (ak sen/choo at/), v.t., -at-ed, -at-ing.

1. to give emphasis or prominence to.

2. to mark or pronounce with an accent. [1725-35; < ML accentuatus intoned (ptp. of accentuare). See ACCENT, -ATE¹]

ac-cen-tu-a-tion (ak sen/chōō ā/shən), n. 1. an act or instance of accentuating. 2. something that is accentuated. [1820-30; < ML accentuation- (s. of accentuatio) intoning. See ACCENTUATE, -ION]

ac-cen-tu-a-tor (ak sen/choō ā/tər), n. 1. Electronics. a circuit or network inserted to provide less loss or
greater gain to certain frequencies in an audio spectrum,
as a preemphasis spectrum. 2. a person or thing that
accentuates. [1875-80; ACCENTUATE + -OR²]

ac-cept (ak sept), v.t. 1. to take or receive (something offered); receive with approval or favor: to accept a present; to accept a proposal. 2. to agree or consent to; accede to: to accept a treaty; to accept an apology. 3. to respond or answer affirmatively to: to accept an invitation. 4. to undertake the responsibility, duties, honors, etc., of: to accept the office of president. 5. to receive or admit formally, as to a college or club. 6. to accommodate or reconcile oneself to: to accept the situation. 7. to

regard as true or sound; h cept Catholicism. 8. to usual. 9. to receive as Com. to acknowledge, by ment, and thus to agree t liberative body) to receiv of the duty with which. been charged; receive to the committee was accep (something attached; inse cept a three-pronged pl planted organ or tissue) v Ject (def. 7). -v.i. 14 position, etc. (sometimes cepten < MF accepter < -cep-take, comb. form o Syn. 2. concede. 7.

as verbs because of their rapid speech. Accept me cept this trophy), while is tain types of damage are insurance policy).

thy of being accepted. 2 factory; agreeable; welco requirements; barely a mance. 4. capable of be acceptable levels of radic ceptabilis. See ACCEPT, cept/a-ble-ness, n. —i

receiving something offer proval; favor. 3. the aceptance of a theory. 4 cepted or acceptable. 5. an engagement to pay awhen it becomes due, adrawn. b. an order, drain accepted as calling for to pay. [1565-75; ACCEPT

accept/ance race/, accept/ance re/gior a test statistic for which Cf. rejection region.

of accepting; acceptance receive; receptiveness:

acceptiant (ak sep/t

cepting or receiving; re-ANT]
ac-cep-ta-tion (ak/seaccepted meaning of a

regard, approval. 3. be [1400-50; late ME < M ac-cept-ed (ak sep/ti ally regarded as norma ciation of a word; an o

+ -ED²] —ac·cept/ed accept/ed ma/sons (def. 2b).

which two or more consuch a manner that ce but one product is maccial or desirable than i ac-cept-ee (ak/sep to as for military service:

ac·cept·er (ak sep/ticepts. [1575-85; ACCEP ac·cept·ing (ak sep/was always more accepher teammates. [1570-ing·ly, adv. —ac·cep

accept; receptive: She t tions. 2. reasonably s tive mode of transports on the model of RECEP

person who accepts a drawee who signs the ness to pay it when do om, acceptor imputing a semiconducting cruture an electron, creat and thereby changing crystal. 4. Chem. and pound that combines thereby profoundly properties: electron accepto (< AF acceptour) < Laccipere to receive, ge

ac·cess (ak/ses), n.

to approach, enter, sp have access to the file approachable: The ho way or means of appr was a rough dirt ro through Jesus Christ. ease. 6. a sudden and cession. 8. See publi make contact with or approach, enter, etc.: checking accounts ins system. 10. Computer one part of a compute tween an external s -adj. 11. Television. able to the public: Six [1275-1325; ME acces approach, equiv. to a + -tus suffix of v. ac

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units being

•a•syl•lab•lc (dek/ə si lab/ik), adj. having ten syles: a decasyllabic verse. [1765-75; DECA- + SYLLABIC; decasyllabique]

•a•syl•la•ble (dek/ə sil/ə bəl), n. a word or line of ie of ten syllables. [1830-40; DECA- + SYLLABLE]

ings of attachment from (a person, idea, or object), as nticipation of a future loss: He decathected from her rder to cope with her impending death. [DE- + CA-CT] decathex-is (de/ke thek/sis), n.

ath-lete (di kath-let), n. an athlete who takes in or trains chiefly for a decathlon. [1965-70; b. DE-HLON and ATHLETE]

athelon (di kathelon), n. an athletic contest coming ten different track-and-field events and won by contestant amassing the highest total score. [1910-DEC- + Gk athlon prize, contest]

ating (dek'ə ting), n. a finishing process for ing fabric more lustrous, for improving the tactile ity of the nap, and for setting the material to reduce ikage. Also, **dec-a-tiz-ing** (dek'ə tī/zing). [< F t(ir) to sponge, remove gloss ($d\acute{e}$ - DE- + catir to 3, add gloss to < VL *coāctīre to drive together, v. to L coāct(us), ptp. of coagere (co- co- + ag(ere) to 3, set in motion + -tus ptp. suffix) + -īre inf. suffix)

a-tur (di kā/tər), n. 1. Stephen. 1779–1820, U.S. l'officer. 2. a city in central Illinois. 94,081. 3. a in N Alabama. 42,002. 4. a city in N Georgia, near ita. 18,404.

a.tyl al/cohol (dek/e tl), Chem. decanol. [< lékat(os) tenth (see DECA-, -TH²) + -YL]

By (di ka/), v.i. 1. to become decomposed; rot: ation that was decaying. 2. to decline in excellence, perity, health, etc.; deteriorate. 3. Physics. (of a rative nucleus) to change spontaneously into one or different nuclei in a process in which atomic partias alpha particles, are emitted from the nucleus, rons are captured or lost, or fission takes place. 4. to cause to decay or decompose; rot: The dampof the climate decayed the books. —n. 5. decompois rot: Decay made the wood unsuitable for use. 6. a ial falling into an inferior condition; progressive dethe decay of international relations; the decay of extec civilizations. 7. decline in or loss of strength, h, intellect, etc.: His mental decay is distressing. 8. called disintegration, radioactive decay. Physics. ioactive process in which a nucleus undergoes sponus transformation into one or more different nuclei simultaneously emits radiation, loses electrons, or rgoes fission. 9. Aerospace. the progressive, aciting reduction in orbital parameters, particularly se and perigee, of a spacecraft due to atmospheric [1425-75; (v.) late ME decayen < ONF decair, to de- DE- + cair to fall < VL *cadere, for L e; (n) late ME, deriv. of the v.] —de-cay/a-ble, de-cayed-ness (di kād/nis, -kā/id-), adj. —de-

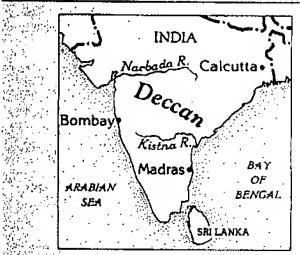
DISINTEGRATE, ROT imply a deterioration or falling from a sound condition. Decay implies either enor, partial deterioration by progressive natural tes: Teeth decay. Decompose suggests the reducing substance to its component elements: Moisture substance to its compounds decompose. DISINTE-temphasizes the breaking up, going to pieces, or ng away of anything, so that its original wholeness paired: Rocks disintegrate. Rot is a stronger word DECAY and is esp. applied to decaying vegetable or, which may or may not emit offensive odors: pes rot. 5. putrefaction. 7. deterioration, decayimpairment, dilapidation, degeneration.

Con/stant, Physics. the reciprocal of the time. Also called decay rate, disintegration con-[1930-35]

// Se/ries, Physics. See radioactive series.

time, Physics. the time required for a colnof atoms of a particular radionuclide to decay to a on of the initial number equal to 1/e. Cf. e (symbol) l). Also called mean life.

(dek/e), n. a British radio navigational aid by a fix is obtained by determining phase difference en continuous-wave signals from two synchronized signals. Cf. loran. [1945-50]



b. blend of, blended; c., cognate with; cf., compare; deriv., re; equiv., equivalent; imit., imitative; obl., oblique; r., respelled; ranslation; ?, origin unknown; *, unattested; ‡, probably han See the full key inside the front cover.

Dec-can (dek/en), n. 1. the entire peninsula of India S of the Narbada River. 2. a plateau region in S India between the Narbada and Krishna rivers.

dec/can hemp/ (dek/en), kenaf.

decd., deceased.

dece (des), adj. Slang. great, wonderful. Also, dees. [shortening of DECENT]

de-cease (di sēs/), n., v., -ceased, -ceas·ing. —n. 1. the act of dying; departure from life; death. —v.i. 2. to depart from life; die. [1300-50; (n.) ME deces < OF < L dēcessus departure, death, equiv. to dēced-, var. s. of dēcēdere to go away (dē- DE- + cēdere to go; see CEDE) + -tus suffix of v. action, with dt > s; (v.) late ME decesen, deriv. of the n.]

de-ceased (di sēst), adj. 1. no longer living; dead.

n. 2. the deceased, a. the particular dead person or persons referred to. b. dead persons collectively: to speak well of the deceased. [1480-90; DECEASE + -ED²]

—Syn. 1. See dead.

de-ce-dent (di sēd/nt), n. Law. a deceased person. [1590-1600; < L dēcēdent- (s. of dēcēdēns) departing, withdrawing, prp. of dēcēdere. See DECEASE, -ENT]

dece dent estate/, Law. the estate left by a decedent.

de-ceit (di set/), n. 1. the act or practice of deceiving; concealment or distortion of the truth for the purpose of misleading; duplicity; fraud; cheating: Once she exposed their deceit, no one ever trusted them again. 2. an act or device intended to deceive; trick; stratagem. 3. the quality of being deceitful; duplicity; falseness: a man full of deceit. [1225-75; ME deceite < AF, OF, n. use of fem. of deceit, ptp. of deceivre to DECEIVE]

-Syn. 1. deception, dissimulation. 1, 3. DECEIT, GUILE, HYPOCRISY, DUPLICITY, FRAUD, TRICKERY refer either to practices designed to mislead or to the qualities that produce those practices. Deceir is the quality that prompts intentional concealment or perversion of truth for the purpose of misleading: honest and without deceit. The quality of Guile leads to craftiness in the use of deceit: using guile and trickery to attain one's ends. Hy-POCRISY is the pretense of possessing qualities of sincerity, goodness, devotion, etc.: It was sheer hypocrisy for him to go to church. Duplicity is the form of deceitfulness that leads one to give two impressions, either or both of which may be false: the duplicity of a spy working for two governments. Fraud refers usually to the practice of subtle deceit or duplicity by which one may derive benefit at another's expense: an advertiser convicted of fraud. TRICKERY is the quality that leads to the use of tricks and habitual deception: notorious for his trickery in business deals. —Ant. 3. honesty, sincer-

deceit-ful (di set/fel), adj. 1. given to deceiving: A deceitful person cannot keep friends for long. 2. intended to deceive; misleading; fraudulent: a deceitful action. [1400-50; late ME; see DECEIT, -FUL] —deceit/ful·ly. adv. —deceit/ful·ness. n.

Syn. 1. insincere, disingenuous, false, hollow, designing, tricky, wily. 2. illusory, fallacious. —Ant. 1. honest. 2. genuine.

de-ceiv-a-ble (di se'və bəl), adj. 1. capable of being deceived; gullible. 2. Archaic. misleading; deceptive. [1350-1400; ME; see DECEIVE, ABLE]

de-ceive (di sev'), v., -ceived. -ceiv-ing. —v.t. 1. to mislead by a false appearance or statement; delude: They deceived the enemy by disguising the destroyer as a freighter. 2. to be unfaithful to (one's spouse or lover).

3. Archaic. to while away (time). —v.i. 4. to mislead or falsely persuade others; practice deceit: an engaging manner that easily deceives. [1250-1300; ME deceiven < OF deceivre < L decipere, lit., to ensnare, equiv. to de-DE- + -cipere, comb. form of capere to take] —de-ceiv/-a-bie-ness, de-ceiv/a-bil/i-ty, n. —de-ceiv/a-bily, adv. —de-ceiv/er, n. —de-ceiv/ing-ly, adv.

—Syn. 1. cozen, dupe, fool, gull, hoodwink, trick, defraud, outwit, entrap, ensnare, betray. See cheat.

de-cei-er-ate (de sel-e rat-), v., -at-ed. -at-ing. —v.t.

1. to decrease the velocity of: He decelerates the bobsled when he nears a curve.

2. to slow the rate of increase of: efforts to decelerate inflation. —v.i.

3. to slow down: The plane decelerated just before landing. [1895-1900; DE- + (AC)CELERATE] —de-cel-er-a-tion, n. —de-cel-er-a-tor, n.

de-cel-er-om-e-ter (dē sel'ə rom'i tər), n. a device that measures the rate of deceleration, as of a vehicle. [1920-25; DECELER(ATION) + -0- + -METER]

de-cel-er-on (de sel-e ron), n. Aeron. an eileron that acts as a brake. [b. DECELERATE and AILERON]

de-cem (de/kem; Eng. des/em), adj. Latin. ten.

De-cem-ber (di sem/bər), n. the twelfth month of the year, containing 31 days. Abbr.: Dec. [bef. 1000; ME decembre < OF < L december (s. decembr-) the tenth month of the early Roman year, appar. < *dec(em)-membri-, equiv. to decem TEN + *-membri- < mensmonth + -ri- suffix (with -sr- > -br- and assimilation of pass))

De-cem-brist (di sem/brist), n. Russ. Hist. a participant in the conspiracy and insurrection against Nicholas I on his accession in December, 1825. [1880-85; trans. of Russ dekabrist. See DECEMBER, -IST]

de-cem-vir. (di sem'vər), n., pl. -virs, -vi-ri (-və rī').

1. a member of a permanent board or a special commission of ten members in ancient Rome, esp. the commission that drew up Rome's first code of law.

2. a member of any council or ruling body of ten. [1570-80; < L, orig. pl. decemvirī, equiv. to decem ten + virī men] —de-cem'vi-rai, adj.

de-cem-vi-rate (di sem/vər it, -və rāt/), n. 1. a

board or group of decemvirs. 2. the office or government of decemvirs. [1610-20; < L decemviratus See ul CEMVIR, -ATE³]

de-cen-cy (de/sen se), n., pl. -cies. 1. the state quality of being decent. 2. conformity to the recognize standard of propriety, good taste, modesty, etc. 3 decencies. a. the recognized standards of decent or proper behavior; proprieties: The least you can expect from the is some respect for the decencies. b. the requirements a amenities for decent or comfortable living: to be able to afford the decencies. [1560-70; < L decentia comelines; decency, equiv. to decent- (s. of decens) fitting (see property) + -ia n. suffix]

--- Syn. 2. decorum, respectability, gentility.

de-cen-na-ry (di sen/ə rē), n., pl. -ries, adj. —n last decennium. —adj. 2. pertaining to a period of the years; decennial. [1815-25; < L decenn(is) of ten years (dec(em) TEN + -ennis, comb. form of annus a year) - ARY]

de-cen-ni-al (di sen/ē əl), adj. 1. of or for ten year.

2. occurring every ten years. —n. 3. a decennial anni-traversary.

4. its celebration. [1650-60; < L decennial anni-traversary.

a period of ten years (decenn(is) DECENNARY.

-IUM) + -AL¹] —de-cen/ni-ai-ty, adv.

de-cen-ni-um (di sen/ē əm), n., pl. -cen-ni-ums, -cen ni-a (-sen/ē ə). a period of ten years; a decade. [1675] 85; < L; see DECENNIAL]

de-cent (dē/sənt), adj. 1. conforming to the recognized standard of propriety, good taste, modesty, etc. as in behavior or speech. 2. respectable; worthy: a decent family. 3. adequate; fair; passable: a decent wage. 4. kind; obliging; generous: It was very decent of him to lend me his watch. 5. suitable; appropriate: She did not have a decent coat for the cold winter. 6. of fairly at tractive appearance: a decent face. 7. Informal wearing enough clothing to appear in public. 8. Slang great wonderful. [1485-95; < L decent- (s. of decens) fitting (prp. of decere to be fitting; see -ent), akin to decid honor] —de/cent-iy. adv. —de/cent-ness, n.—Syn. 1. seemly, proper, decorous. 5. apt, fit becoming. —Ant. 1. unseemly. 5. inappropriate.

de-cen-ter (de sen/ter), v.t. 1. to put out of center 2 to make eccentric. Also, esp. Brit., decentre. [1885]0. DE- + CENTER]

de-cen-tral-ize (de sen'tra liz'), v., -ized, -izing —v.t. 1. to distribute the administrative powers or functions of (a central authority) over a less concentrated area: to decentralize the national government. 2. to disperse (something) from an area of concentration: to decentralize the nation's industry. —v.i. 3. to undergo decentralization: The city government is looking for way to decentralize. Also, esp. Brit., de-cen'tral-ise'. [1850-in DE- + CENTRALIZE] —de-cen'tral-ist. n. —de-central-i-za'tion, n.

de-cen-tre (de sen/ter), v.t., -tred, -tring. Chiefly Briddecenter.

de-cep-tion (di sep/shan), n. 1. the act of deceiving the state of being deceived. 2. something that deceives or is intended to deceive; fraud; artifice. [1400-50; late.] ME decepcioun < OF < LL deception- (s. of deception) equiv. to L decept(us) (ptp. of decipere; see DECEIVE) -ion- -ion- -ion

—Syn. 2. trick, stratagem, ruse, wile, hoax, imposure, decep/tion bed/, any of various kinds of concealed or disguised beds designed in the 18th century.

decep/tion ta/ble, a table of the 18th century made so as to conceal its true function, as in serving as a cable net for a chamber pot.

de-cep-tive (di sep'tiv), adj. 1. apt or tending to deceive: The enemy's peaceful overtures may be deceptive.

2. perceptually misleading: It looks like a curved line but it's deceptive. [1605-15; < ML deceptivus, equiv to L decept(us) (see DECEPTION) + -ivus -IVE] —deceptive-tive-ty. adv. —de-cep'tive-ness, n.

--- Syn. 1. delusive, fallacious, specious.

decep'tive ca'dence, Music. a cadence consisting of a dominant harmony followed by a resolution to a harmony other than the tonic.

de-cer-e-brate (v. dē ser/ə brāt/; n. dē ser/ə brāt/; brit), v., -brat-ed. -brat-ing. n. —v.t. 1. Surg. to remove the cerebrum. —n. 2. a decerebrated animal 3 a person who, because of brain injury; exhibits behavior characteristic of a decerebrated animal. [1895-1900; pre-cerebrated animal.]

de-cern (di sûrn'), v.i. 1. Scots Law. to enter a judicial decree. —v.t. 2. Archaic. to discern. [1400-50; late ME decernen to decide < OF decerner < L decernere equiv. to de- DE- + cernere to separate, decide]

de-cer-ti-fy (de sûr/te fi/), v.t., -fied. -fy-ing withdraw certification from. [1915-20; pe- + certification (de sûr/te fe kā/shen, dē/sertif/e-), n.

de-chlo-ri-nate (de klôr/a nāt/, -klôr/-), v.t., -at-ed, -at-ing. Chem. to remove the chlorine from (a substance, as water): to dechlorinate tap water for use in an aquarium. [1940-45; DE- + CHLORINATE] —de-chlo/ri-na/tion. n.

deci-, a combining form meaning "tenth," used in words denoting units of the metric system (deciliter); on this model, extended to other systems (decibel). Cf. deci-. [< F déci- < L decimus tenth]

dec-i-bar (des/e bar/), n. Physics. a centimeter-gramsecond unit of pressure, equal to 1/10 bar or 100,000 dynes per square centimeter. [1905-10; DECI- + BAR¹]

dec-i-bel (des/e bel/, -bel), n. Physics. 1. a unit used to express the intensity of a sound wave, equal to 20 times the common logarithm of the ratio of the pressure pro-

ige/. v.t., -merged, ling. g/er, n. /ro-pol/i-tan-i-za/-

de·mist/, v.t.
de·mois/tur·ize/, v.t., -ized,
-iz·ing.
de·mois/tur·iz/er, n.

de-mo/ti-vate/, v.t., -vat-ed, -vat-ing. de-mo/ti-va/tion, n.de-mo/ti-va/tor, n. de·myth/i·cize/, v.t., -cized, -ciz·lng.
de·myth/i·fi·ca/tion, n.
de·myth/i·fy/, v.t., -fied,

de·nic/o·tin·ize/, v.t., -ized.
-iz·ing.
de·nor/mal·i·za/tion, n.
de·num/ber. v.t.

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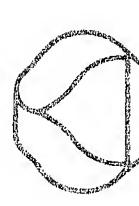
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计专门法字

Peter Martin



Shogakukan Progressive Japanese-English Dictionary

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To the Memory of Professor Doi Köchi



「メビウスの韓(Möbius band)」 長方形の帯を1度ねじって高端を 結びつけて作ったもの。あらゆる 方向に自由に広がり、水道に継続 する。国際語としての英語の圧か リと、雪葉の結びつきを重視した

キイグ

本辞典の起源は四半世紀以上も前にさかのぼる。当時津田塾大学英文学科主任兼付属語学研究所長であった土居光知教授の、和英辞典に対する新しい構想のもとにこの仕事は始まった。当時の和英辞典は日英語ともに難解な言葉を並べることが多く、もう一度英英辞典や英和辞典で語義や用例を確かめねばならなかった。土居先生は日英の基本語の比較分析をもとに、紙面を増すことなく和英、英英の二冊分の機能を合わせもつ辞典を構想されたのである。この方針はその後もずっと一貫して、私たちを支えてきた。

和英辞典はなによりも良い英語を書くことを目標としなければならない。文法的に正しい英語(correct English)を書くことも必要であるが、それ以上に良い英語(good English)を書くことも必要であるが、それ以上に良い菩語(good English)を書くことが大切である。そのためには、まず日英語の言語習慣の違いを充分に知る必要がある。例えば日本語では「ぶらぶら歩く」「気取って歩く」「とぼとぼ歩く」など、「歩く」という一つの動詞に副詞または副詞句をつけて歩き方を示す。しかし英語では "walk" に副詞をつけるのではなく、"stroll" "strut" "trudge" など、動詞そのものによって歩き方を示すのである。このような表現に英語本来の特質、その活力が存するのであり、これを認識してこるような表現に英語本来の特質、その活力が存するのであり、これを認識してこそ good English に到達できるのである。本書はこれを読者に伝え、真に英語らしい英語とは何かを示すことに努めた。

作業の第一歩は日本語の語義立てから始まった。適当な英訳を見つけようとする際, 先ず日本語の意味を明らかにしなければならない。本辞典では、重要な語については原義を1, 比喩の意味を11に分けるなど、語義分けを厳密にし、日本語の概念を明確にするように努めた。日本語を言語体系の異なる英語と比較分析することにより, 結果的には, 従来の国語辞典には見られなかったような日本語の特質が多く浮かび上がってきたと自負している。

収録した日本語の語彙は、日常生活の表現に必要な基本語、新聞・雑誌に登場する各分野の専門用語、身近な動植物の名、新語など7万余にのぼる。これは一般の国語辞典に相当する語彙であり、しかも最も np-to-date でかつ広範囲な現代日本語の集成となっている。

見出し語や用例の英訳に関しては、現在使われている自然な英語になるように心掛けた。また訳語の意味の差異、使い分けを簡潔に説明し、使用上の正確さを期した。しかし本書を特徴づけるのは、なんといっても、10万にのぼる豊富な用例にある。生きた言語は文脈によって用法が異なる。本書では日本語のいろいろな活用を考え、代表的な文型を例証することによって、すぐにも応用できるよう

Dy way of entertainment we had a juggling act and a lottery. ★彼が余興にピアノを弾いてくれた He entertained us by playing the piano.
まぎり【夜霧】 5 谷には夜珠が立ち込めていた The valley lay hidden in a night fop. | A mint. よきにつけあしまにつけ【良きにつけ悪しきにつけ】。よかれあしかれ、良かれ悪しかれ、まなれましかれましかれ悪しかれ、ままよう【余興】『余照として手品と値引きがおった

hung over 「文 enveloped」 the valley. よぎる【◆過ぎる】『 作者な予整か心を過ぎった An ominous premonition *flitted through* [across] my mind

、また【附記】 a deposit 、損金する deposit …ちょきん! 貯金! 『普通(定期! 頂金 an ordinary (a fixed: account ★当座預金*※ a checking account 一英 a current account ★預金があと10万しかない I have only one hundred thousand yen left in the bank. thousand yen from my (savings) account. ★200万 円銀行に預余がある I have two million yen _depos-ited in the bank [in my bank account]. ★毎月2万 円ずつ銀行に預金している Every month I make a deposit of [1 deposit] twenty thousand yen in the only one hundred thousand yen left in the bank. ★預金を30万円おろした I withdrew three hundred 〉預金する deposit → ん【預金】a deposit

>預金口座 a bank account 預金者 a depositor 預

金峰備率 cash ratio; cash-deposit ratio: reserve (requirement) ratio 預金通帳 a passbook; a bankbook 預金利子 interest on one's deposit よく【良く・・好く】①(十分に〕。彼をよく知っていりまえ、「しく・・好く】①(十分に〕。彼をよく知っていりまえ、「「ない」。 J know him very veell. *彼女の言ったことはよく覚えています I remember exactly what she said. * よく有病して、れたね You took very good care of me. ★よく考えて答えを書け Think carefully before you write the answer.
②(うまく)5 光陰矢の如(う)とはよく言ったものだれ is well said that time flies like an arrow.
③(相手の行為がられしいことを表して〕でよくもいて、だいました How kind of you to come! *本当のことをよくぞ言ってくださって、ありかとう Thank you so much for [1 appreciate your] telling me the

4

truth.

●(しばしば) 「後はよく怒る He often gets angry. ★まく起こることだ。気にするな Don't worry about it. It happens all the time [quite often]. ★僕が子供のとき、母はよく本を読んでくれた When I was a child, my mother used to read me books. ★近ごろ

むましたお How Iucky you got back safe and sound!

よく(も)そんなことが言えるな Hove dare you say such a thing!
<【飲】【飲】【飲料】(a) desire (for. to do, that...);
(貪欲(注)] greed(『文·avarice 「娘に死なれ、生きる欲もなくなった Having lost my daughter, I have **⑥**[反語的に]質よく(も)平気な額でいられるものだ! don't understand how he can be so shameless. How can he be so shameless? What nerve!★よく(も)そんなことが言えるは How dare you say

ing]. ★ 要は欲のない女です[物を欲しがらない] My wife is a woman of few wants. (欲張りでない) My wife is far from greedy [文 awaricious]. ★ 所有欲の強い彼は妻にひどくやきもちを焼いた He had such a strong possessive instinct [He was so possessive] that he was an extremely jealous fus. on liv. sire to no *interest in* life [I have no de band

らむ g 欲に目がくらんだ He was blind with greed | avarice (慎用) 欲に目がく

欲にもらこう暑くでは欲にも勉強ができない It is so hot I can't study even if I try. **欲の皮が突っ張っている** 生彼は欲の皮が突っ張って の皮が突っ張って

- 背が高いといい |- If Leould have ## He slept on, いる He is as greedy as he can be. 飲も得もない [©]飲も得もなく眠りこけ forgetting [dead to] crerything. 飲を言えば [©] 欲を言えばもう少し背 wish he were a little taller. 「ロー

my druthers, I'd make him a little taller. 欲をかくニよくばる(欲張る) よく【翼】の(鳥の翼) a wing の(飛行機の翼) a wing の(両側に突き出た節分) a wing でコの字型の建物の 両翼 both reings of a U-shaped building * 敵の右 翼を攻撃した We made an attack on the right flank of the enemy, * 左(右)翼(野球の) left (right) on the following wing: (両翼の) wingspan, wingspread く - 【翌ー】 『翌8月15日に on the

、**くあさ【翌朝】** C 翌朝(翌朝早く)彼は村冬出た The (Early the) next [following] morning he left the village.★彼は帰国した翌朝に亡くなった He died the morning after he returned home. よくあつ【抑圧】(質圧、活動禁止、抑 August 15 よくート云 [next] day, Augu よくあさ【翌朝】 C (Early the) next

抑制)suppresen制,活動都限) ary movements * 警察の治安対策はいっそう期重時なものとなった The measures taken by the police sive.★予選のちょっとしたいたずらは抑圧しないほうがましょり You had better not *restrain* children from press the people; restrain; check 革命運動の柳坪 the suppression of revolution (抑制、活動制度) s information to maintain law and order became more oppres-(a) restraint ・特圧する suppress 压制) oppression; (sion: (压迫, oppress

nnocent mischie

よくうつしょう【抑*鬱症】depression --- うつびょう(鬱病) よう(鬱病) よくか【翼下】---さんか(傘下) よくげつ【翌月】the next [following] month よくげつ【翌月】the next [following] month よくじて [抑止】(a) restraint: deterrence 一 抑止する restrain; deter from: 型抑止するもの a deterrent to crime * 本租互抑止 mutual deterrence * 核戦争 全卸止する *prevent* nuclear war い**如止力**(特に、転争の) a deterrent 生核(戦争)の抑止力 a nuclear de-

よくしたもので【良くしたもので】…よくする!良くしたもので】…よくする)? よくしつ【浴室】a bathroom よくじつ【翌日】 『翌日は快晴たった It was fine the next [following] day. *運動会の翌日は学校が休みたった They had no school (on) the day a first sports meet

しゅう【翌週】the next [following] week しゅもく【翼手目】(動物) Chiroptera じょう【浴場】a bathhouse ¶公衆谷場 a pub-よくしゅい 【紹 よくしゅもく】 よくじょう 【浴 lic bathhouse

ラ【**欲情】Φ〔**欲望〕(a) desire ❷ (情終)

passion: sexual desire; lust ¶欲情をそそる映画 a movie that arouses sexual desire★彼女の大きく胸 の割れたトレスが男の欲情をそそったHer low-cut[redress aroused him.

よくしん [欲心] よく(ば)、よくぼう(欲望) よくする [浴する] ①、あびる(浴びる)、にゅうよ く(入浴)の(身に受ける)で、尺層に拝謁の光栄に浴した I was given [1 enjoyed] the honor of being re-ceived in audience by his Imperial Majesty. よくする [良くする・*能くする] ①(上手にでき る) 質 彼は書をよくする・*能くする] ①(上手にでき る) 質 彼は書をよくする 「能くする] ②(上上により phy. ②(割合まくいく) 質よくしたもので彼が精気になったら娘が帰ってきた Luckily Fortunately], his daughter came back when he fell ill. ③(親切にす る) 質 彼女は私にとてもよくしてくれた She was very good [kind] to me.

よくせい【抑制】restraint: repression () 抑制する restrain; control: check; repress(* repress はたに、何かをしたい気持ちや感情などをこらえること) でインフレを抑制する control [check] inflation * 激情を抑制する control [restrain] one's passions * 過級派の行動を抑制するため in order to control the movements of terrorists * 下満をこれ以上抵制できない I can't hold back [repress] my discontent

any longer.

よくそ【良くそ】→よく(良く)3 よくそう【浴槽】a bathtub よくちょう【翌朝】→よくあさ(翌朝) よくと【沃土】rich [fertile] soil; fertile land よくとく【欲得】 引きまれない人でのために前得を離れた 善しを任をする do something to help unfortunate people from unselfish [altruistic] motives >飲得すくり気得すくの窓を注掛けた He made ad-vances to his superior's daughter for the sake of material interest Lout of selfish motives. 76 76 76 76 76

of material interest Lout of selfish motives. よくとし【翌年】 まくねん(翌年) よくねん【欲念】(a) desire よくねん【翌年】 (翌年への繰り越し the balance carried forward to the next year *彼はその翌年に 生まれている He was born the year after that [(in)

生まれている rie was www.the following year].
よくばり【欲張り】greed、"文 avarice"(人) a greedy [文 an avaricious] person 「欲張りな greedy、 文 avaricious; grasping areedy、 文 avaricious; grasping greeds &

sumed

Terror of the control of the control

modulation へや「ガ へよう」 西郡を行け

即場を付けて読んでごらん Read it with a more pronounced intonation. *牧師は抑得を付けて許確(3.4) 大き唱え始めた The minister began to intone the prayer. *彼の抑揚のない話し声を聞いていると眠くなる His singsong voice [monotonous way of talk-

浴用のタネル a bath towel よくよくして十分に、念を入れてりをよくよく考えた末、 彼と結婚することにした After thinking it over care-fully. I decided to marry him. ② (非常に) 型私はよくよくぼんやり者だ How ex-traordinarily absentminded I am! ★またまた失敗 するとは、私もよくよく運が悪い How unlucky I am ing] makes me drowsy. よくよう【洛用】『浴用石けん bath [toilet] 浴用のタオル a bath towel

to fail again!

O(やむを得ない様子) 単彼が泣き出すなんてよくよくのことだ It must be something very sorious to make him cry. ★よくよくの訳があって家出をしたのに違いない There must have been compelling reasons for her to have run away from home.

よくよく【翼翼】 「小心翼々として一しょうしん小

Ź

、 くよく — 【翌翌 —】 § 翌マ日依は死んだ He died two days later. ★結婚した翌々月出征した I went to the front two months after I got married. (くりゅう 【拘留】detention: internment § 父はスニラに拘留されていた My father was interned in 46

溫されていた My father was interned in My father was an internee [a detainee in Manila. > 神智者 a detained person; an internee; a detain-Manila.

ee 抑留所 a detention camp よくりゅう【翼竜】(古 年 [teradæktil]: a pterosaur

よくりゅう【翼竜】(古 年 物) a pterodacty!

[teradæktil]: a pterosaur 〉翼竜目 Pterosauria

- よけ【一・除け】 写霜除け a frost shelter a covering to protect against the frost * 日除け a sunshade a blind * 増丸(3)除けのようス bulletproof
glass * どろぼう除けに部尾部屋にベルを取り付けた
We installed (burglar) alarms in each room to
protect ourselves against burglars.

よけい【余計】 ① (普通よりたくさん) ⑤ 人より余計様
習した I practiced more than others.
② (余り、余分) ○ 余計な too many [much]; surplus ◇ 徐計に (too) much ⑤ 本の代金を20円余計に
払ってしまった I paid twenty yen too much for the
book. * このゲームにほ私1人余計なのではないかしら
Won't I make one too many for this game? * 余計れ

-aangliligililikaa

な金はない I have no money to spare. ⑤ (無駄、不要) 「余計なら世話だ Mind your own business. ★弁計なことだが、もう少し体を大切にしなさい I know it's none of my business, but I wish you would take better care of yourself. ★余計なことをしゃべるから事を荒立てるのだ You make mat-

ters worse by saying unnecessary things.

(のいっそう、ますます) 雪来るなと言われると余計(に) 行きたくなる When we are told not to come, we become all the more eager to go. * 長生きすればそれだけ余計に社会のためになっている The longer you live, the more contribution you are making to ward the society.

I was a nuisance in the family. よけつ【預曲】○ 預 血 する donate blood in change for blood one might need in the future よける【◆避ける】→さける(避ける) ① 木の株を

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بر

またはる【飲暖る】 be greedy for 「それは旅張り すぎた You are asking too much、★モの手は鉄張っ て一度にあめを3つもつにほうの込んた The child greedily crammed three candies into his mouth all at once. ★何こも手に入れようと欲張らものではない You should not be so anxious [eager] to get everything. よくばん 【聖姫】「翌晩彼が訪ねて来た He came to see me the next [following] evening. よくばん 【愛姫】 「翌晩彼が訪ねて来た He came to see me the next [following] evening. よくばん 【愛姫】 「当晩彼が訪ねて来た He came to see me the next [following] evening. よくばん 【愛姫】 「まくばり(欲暖り) 「毎は徐彦だ He is a greedy 「文・an avarievous I man. よくぼう 【欲望】 greed for (a) desire for mon-ey, to do, that 「肉体の欲望に燃える be con-

ey, to do, that: 写肉体の欲望に燃える be consumed with [by] lust くめ【欲目】『欽日こ見る look at a matter with biased eyes ★與は親の欲目で見ても美人とはいえない biased eyes ★飯は親の欲目で見ても美人とはいえない The girl is not a beauty, even to the partial eyes

も】~よかれあし 〈(良く) () も悪しく も「良くも」、よくしあしくも「しょく」もあしくも「良くも」にはいればしかれ かれ、良かれ悪